

Figure 1

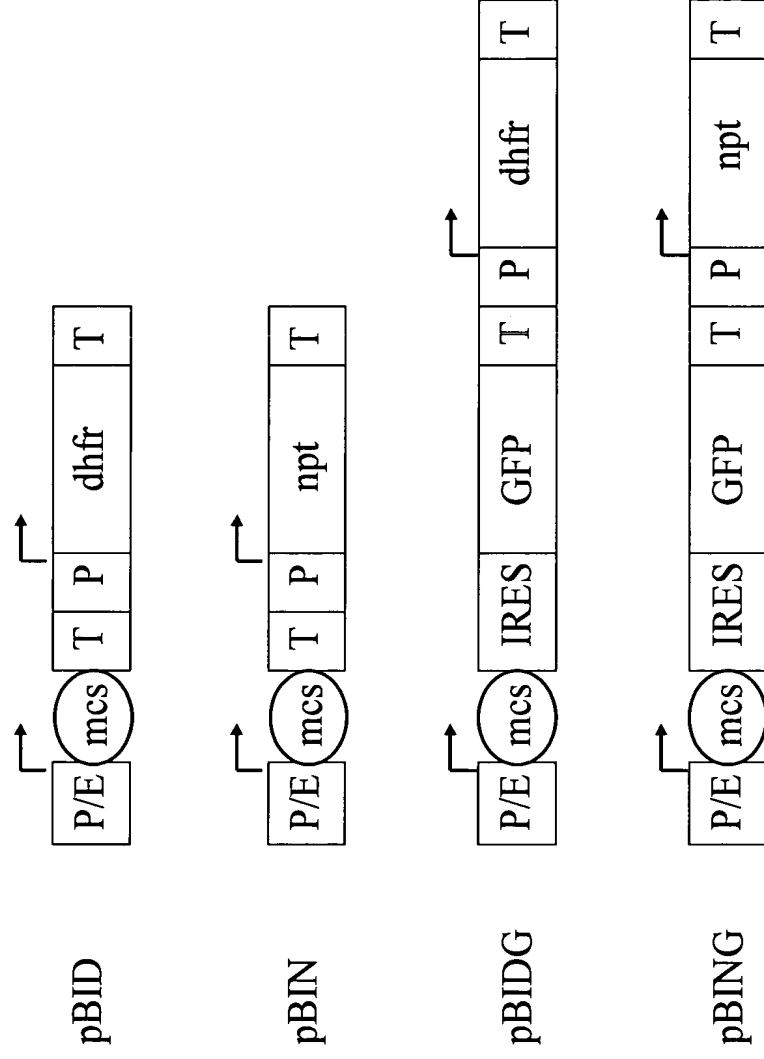


Figure 2A

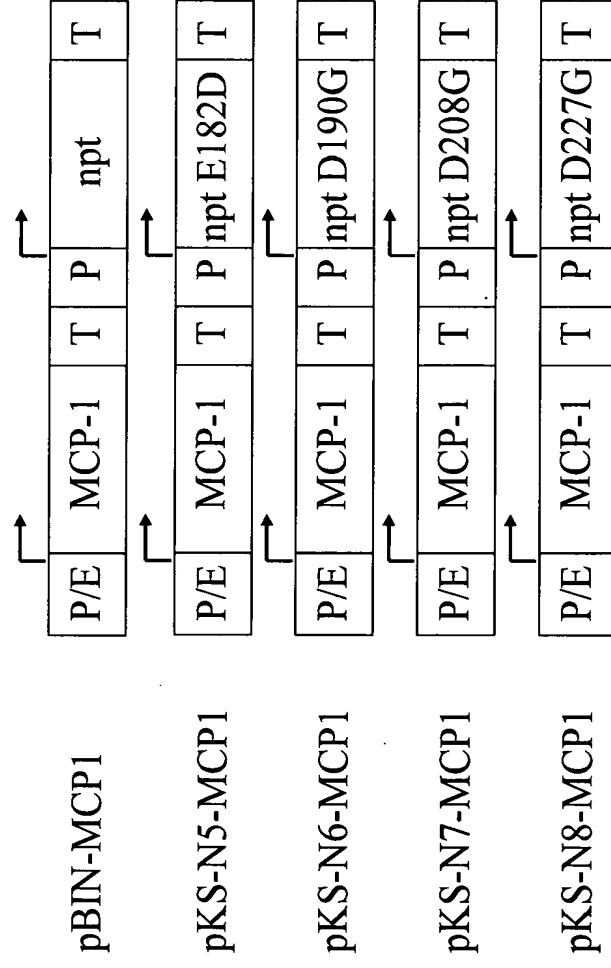


Figure 2B

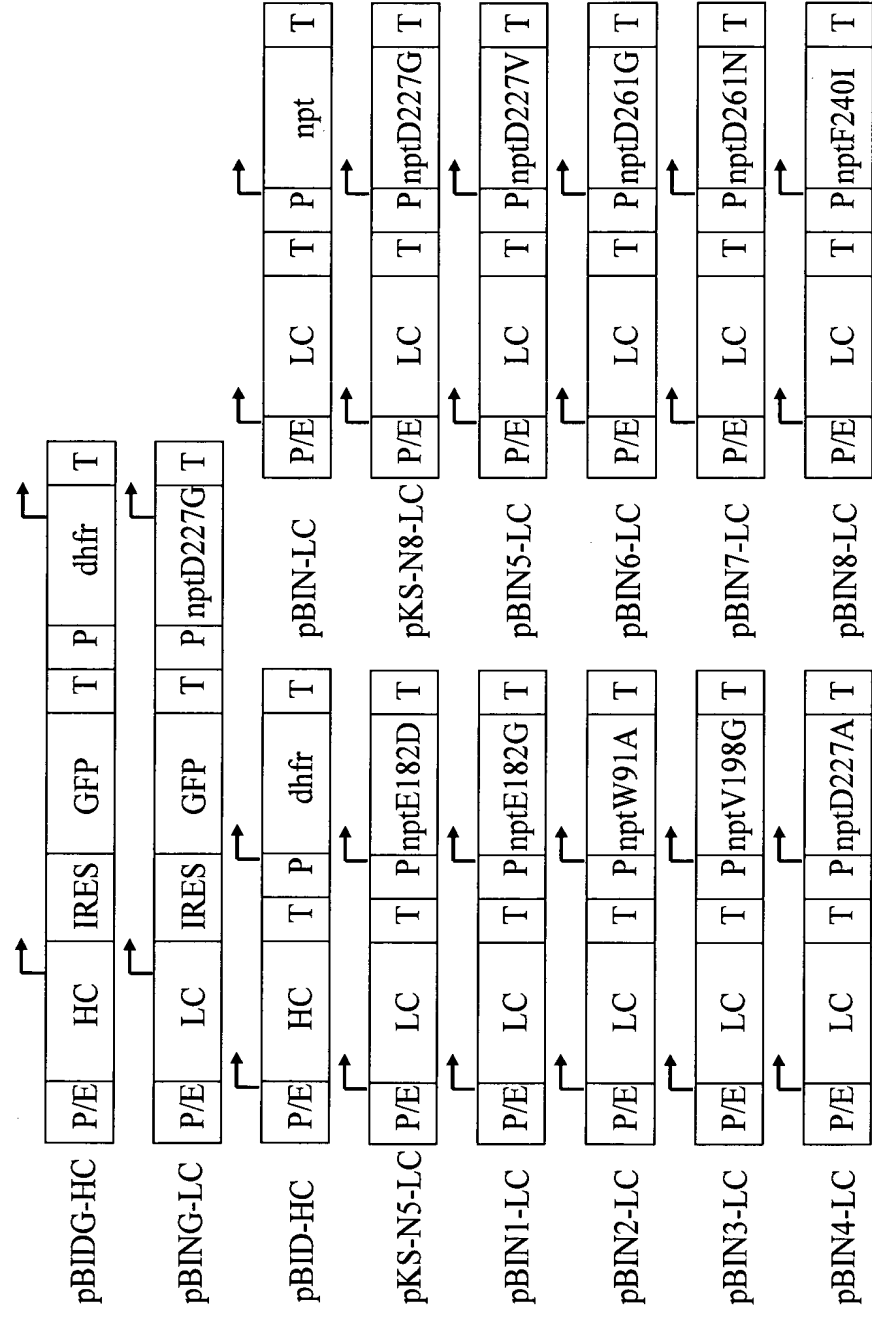


Figure 3

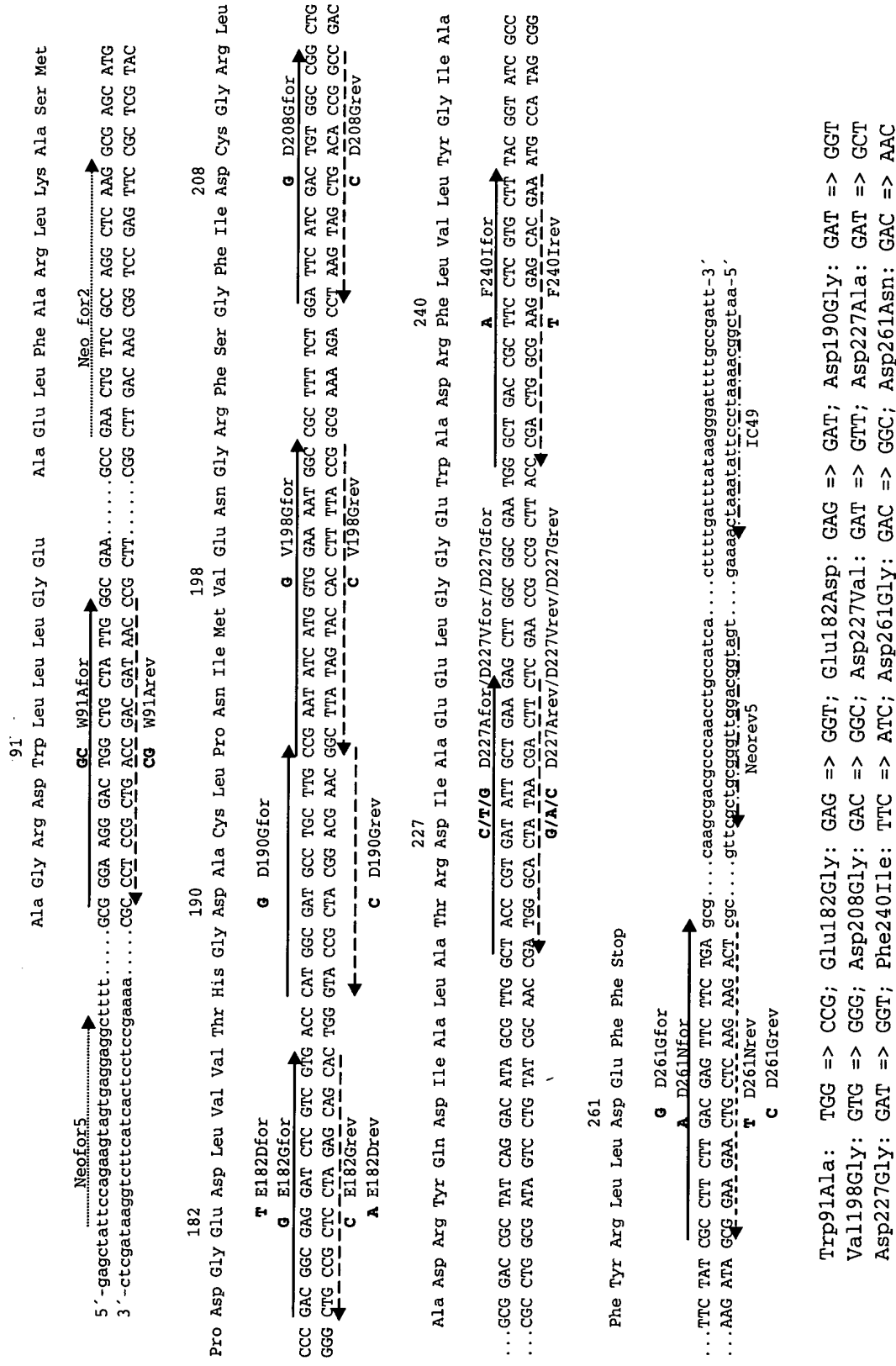


Figure 4

1 MIEQDGLHAG SPAAWVERLF GYDWAQQTIG CSDAAVFRLS AQGRPVLFVK
91
51 TDLSGALNEL QDEAARLSWL ATTGVPCAAY LDVVTEAGRD WLLLGEVPGQ
101 DLLSSHLAPA EKVSIMADAM RRLHTLDPAT CFFDHOAKHR IERARTRMEA
151 GLVDQDDLDE EHQLAPAE L FARLKASMPD GEDLVVTHGD ACIPNIMVEN
182 190 198
201 GRFSGFIDCG RLGVADRYQD IALATRDIAE ELGGEWADRF LVLYGIAAPD
208 227 240
251 SQRIAFYRLL DEEF
261

Motif 1
Motif 2
Motif 3

Figure 5

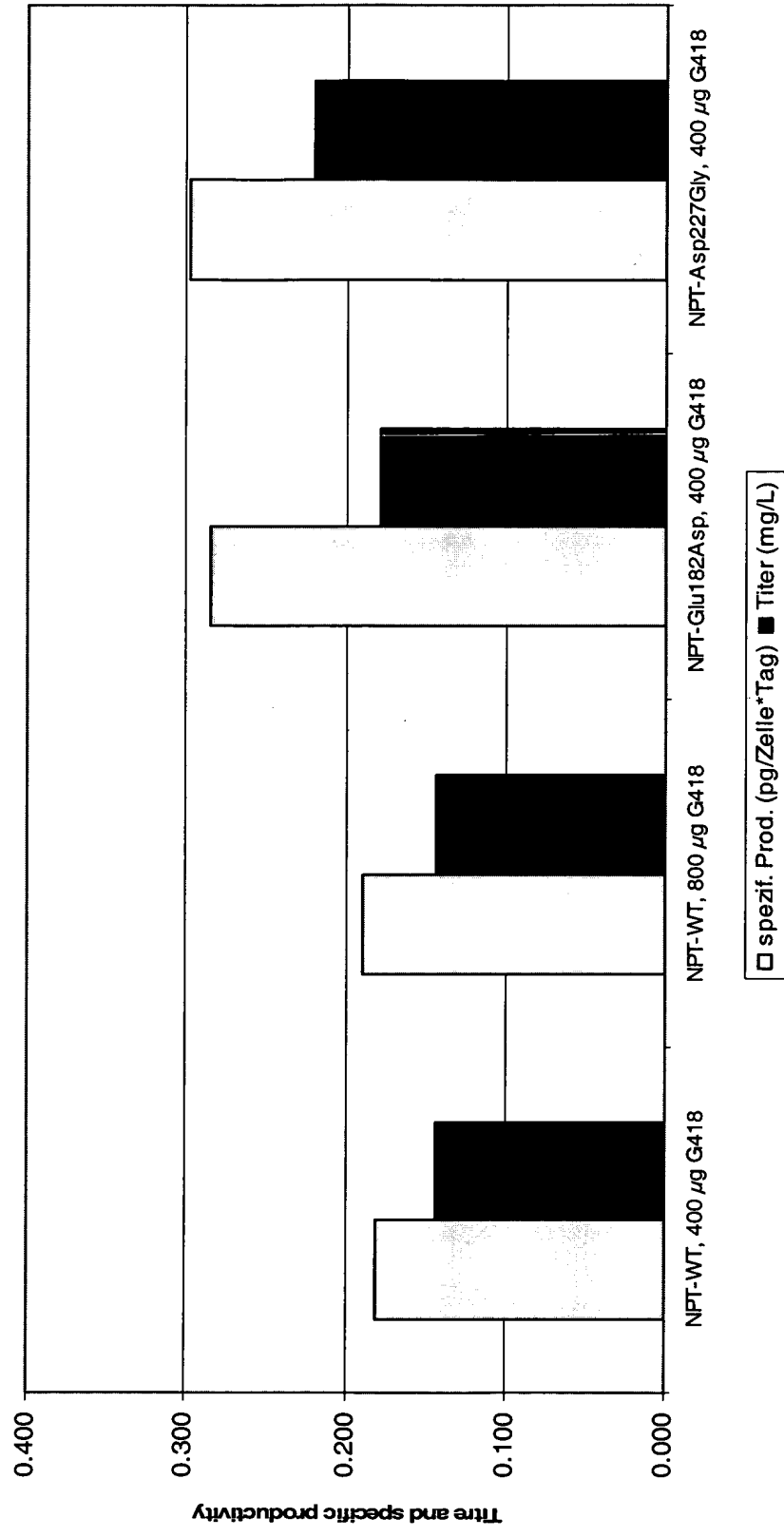
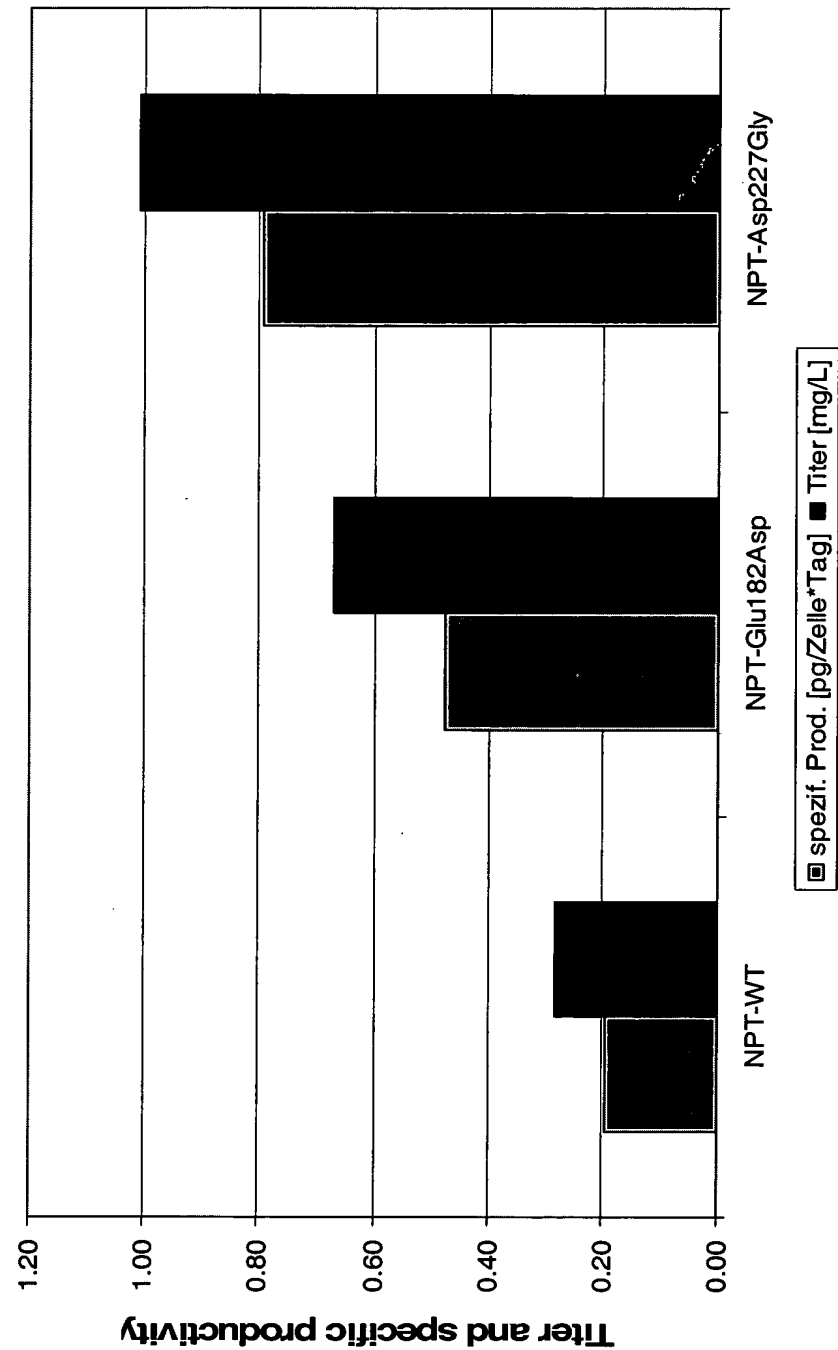


Figure 6A



Titre (relative)	1	2.4	3.6
spec. Prod. (rel.)	1	2.4	4.1

Figure 6B

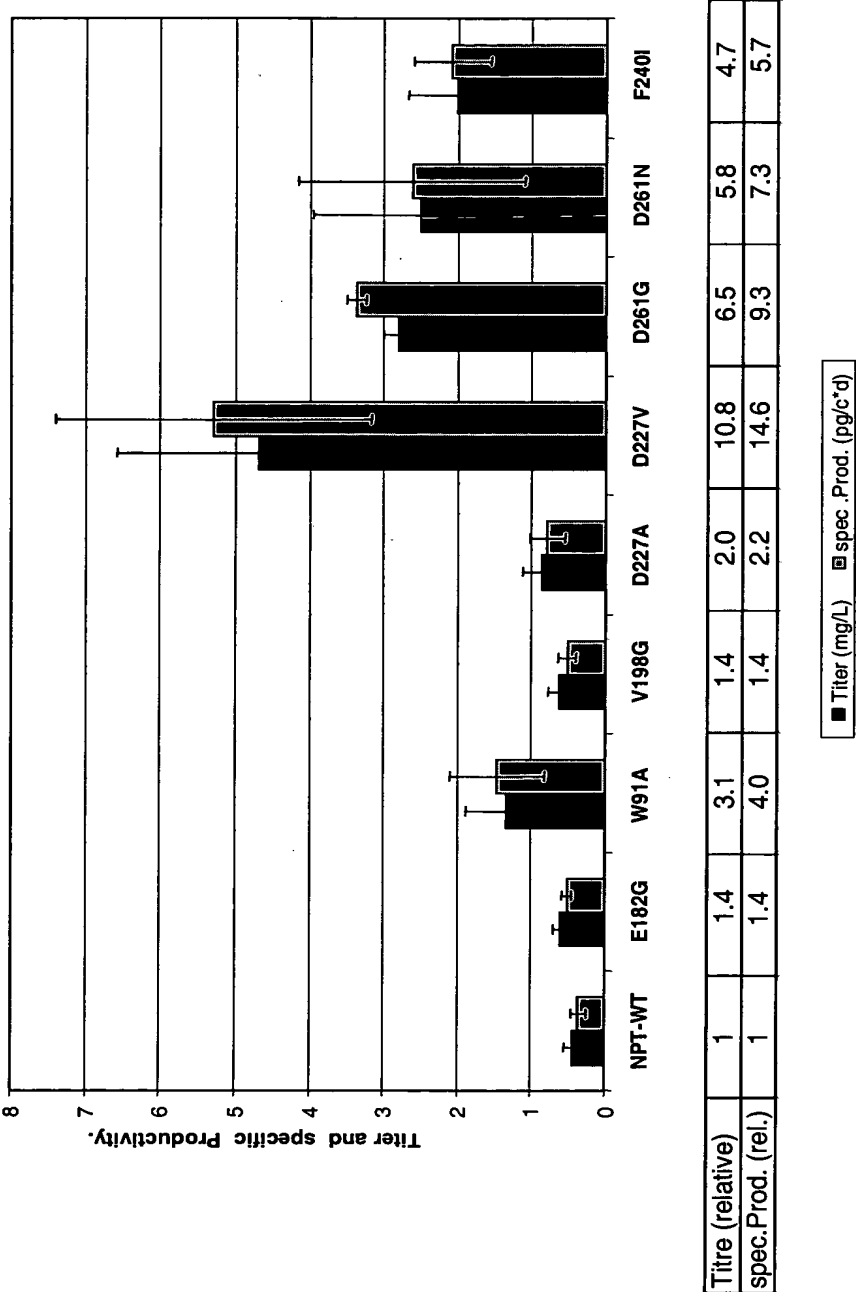


Figure 7

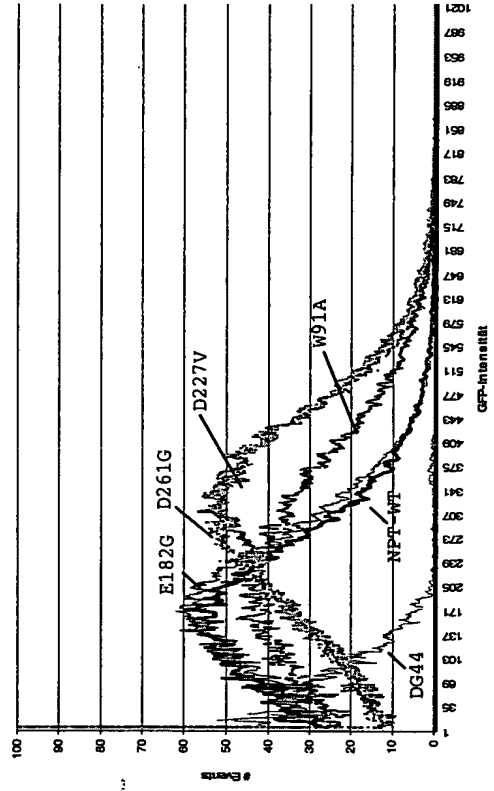
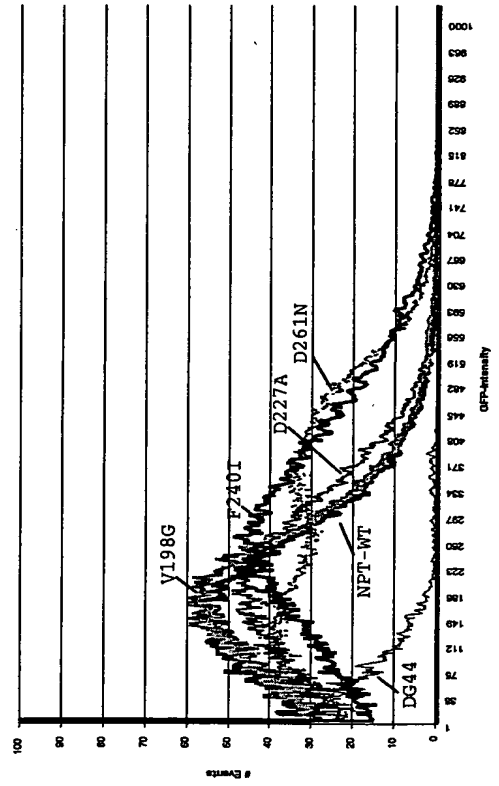
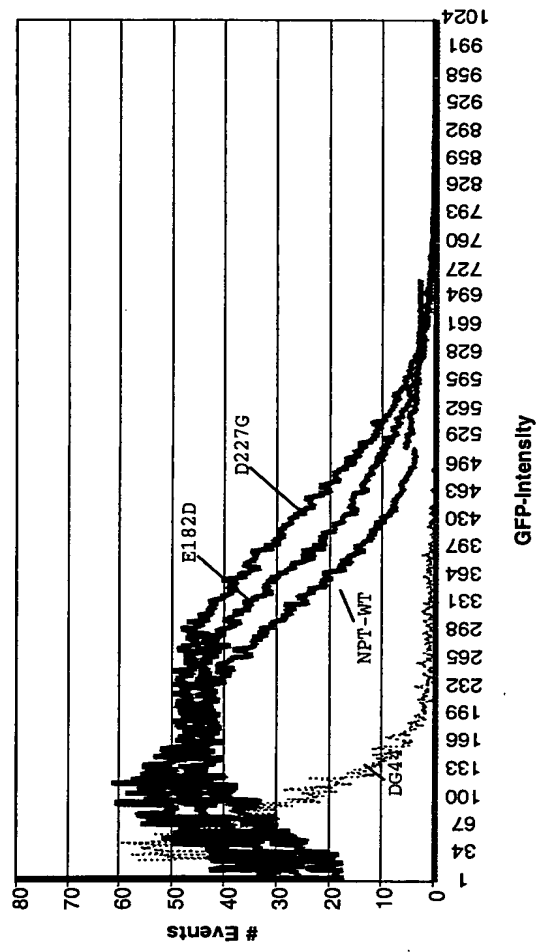


Figure 8

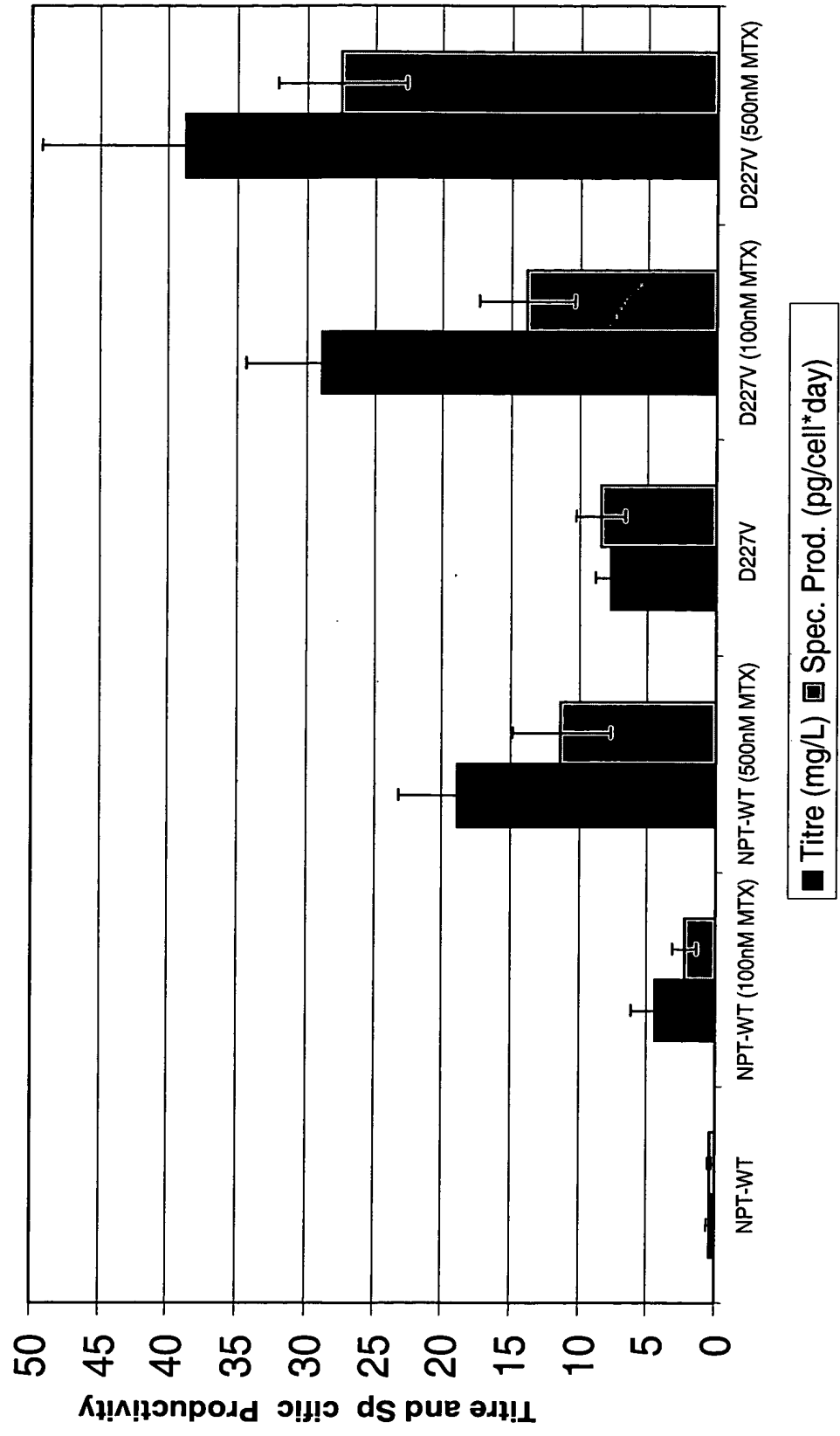
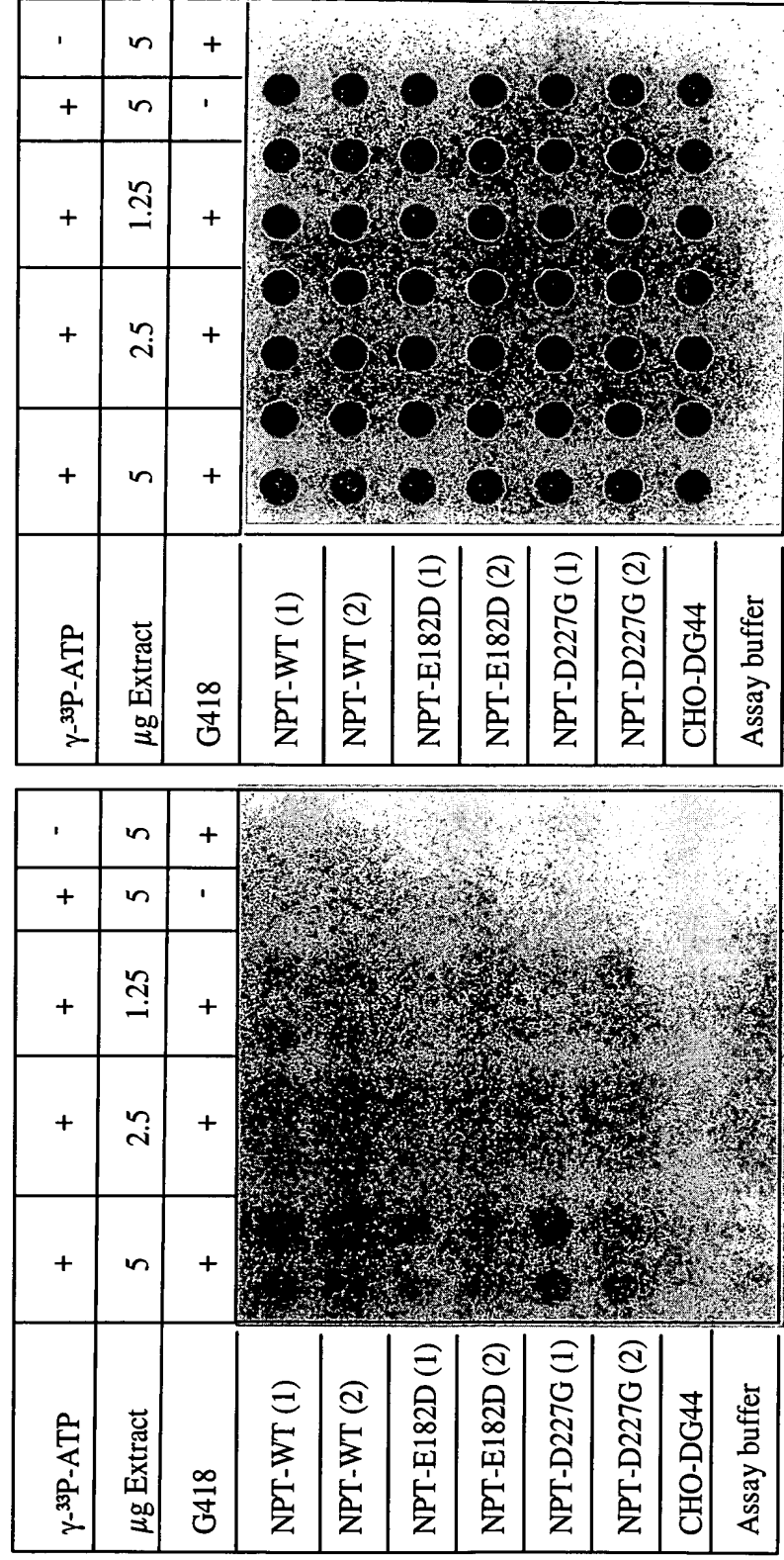


Figure 9A



Phosphocellulose

Nitrocellulose

Figure 9B

NPT - Variant	% Enzyme activity (WT-NPT = 100 %)
NPT - Wildtype	100.0
Trp91Ala	53.2
Glu182Gly	25.8
Glu182Asp	22.0
Val198Gly	61.9
Asp227Ala	26.9
Asp227Val	16.4
Asp227Gly	30.0
Phe240Ile	23.4
Asp261Gly	3.1
Asp261Asn	1.5

Figure 10

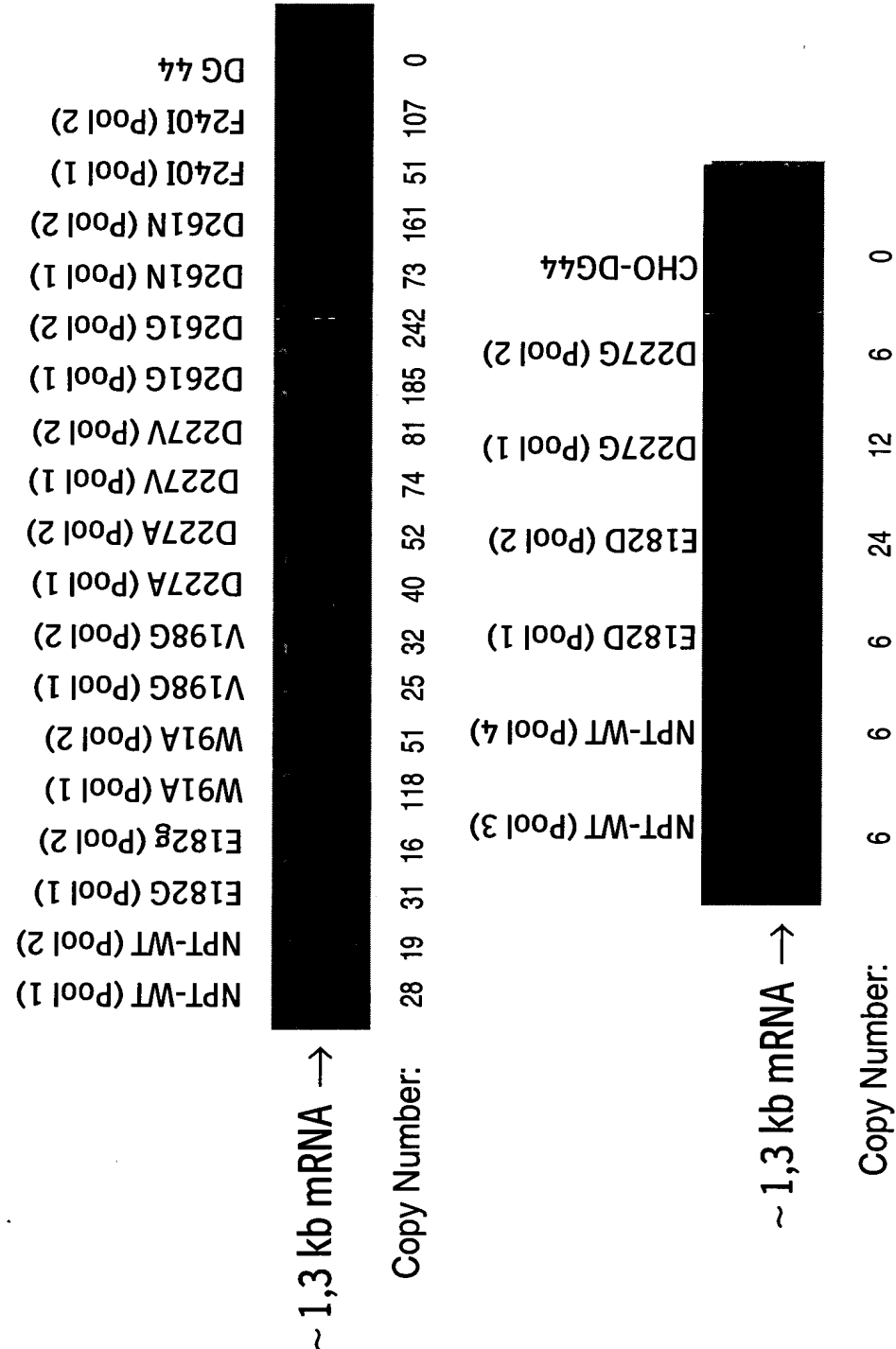


Figure 11

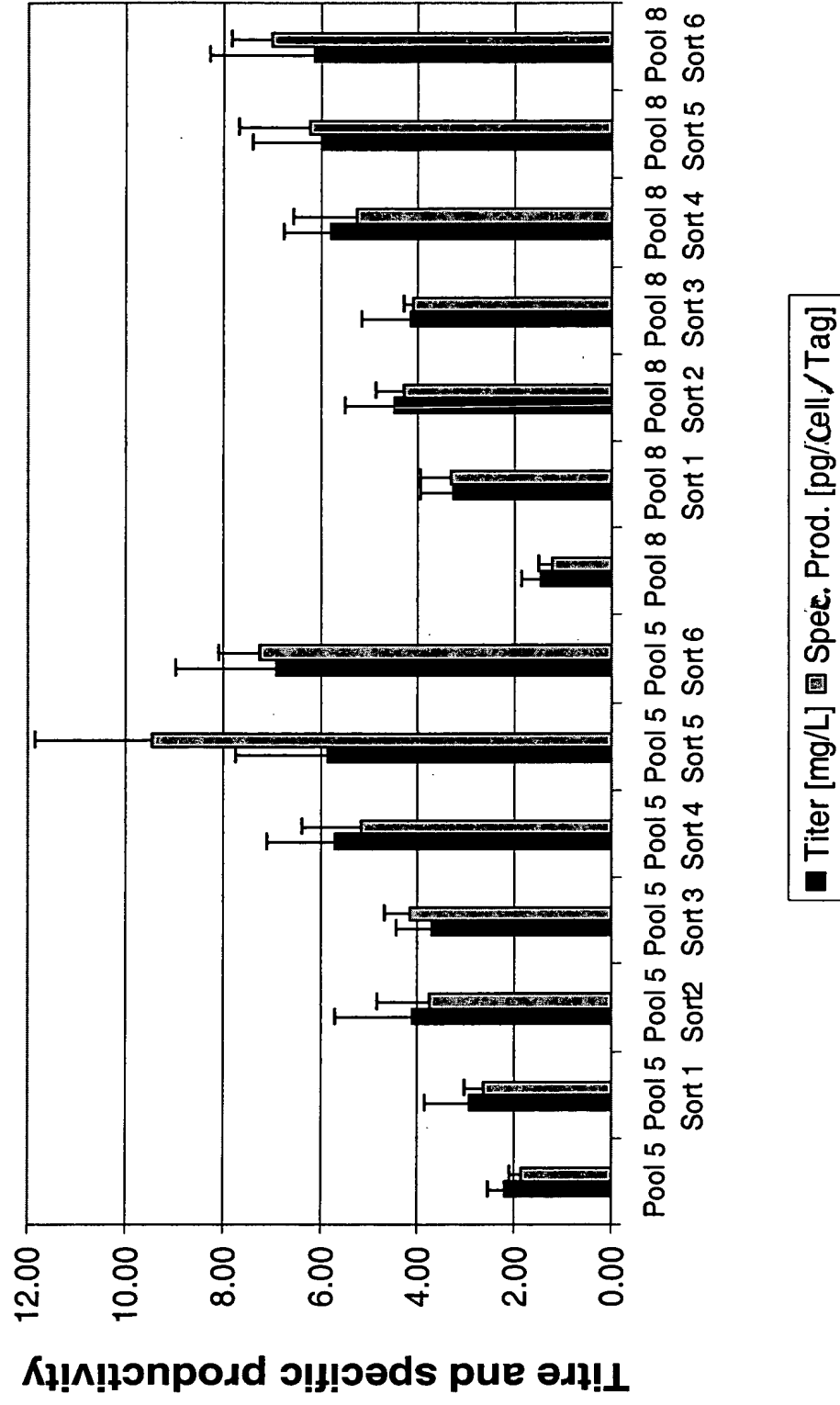


Figure 12

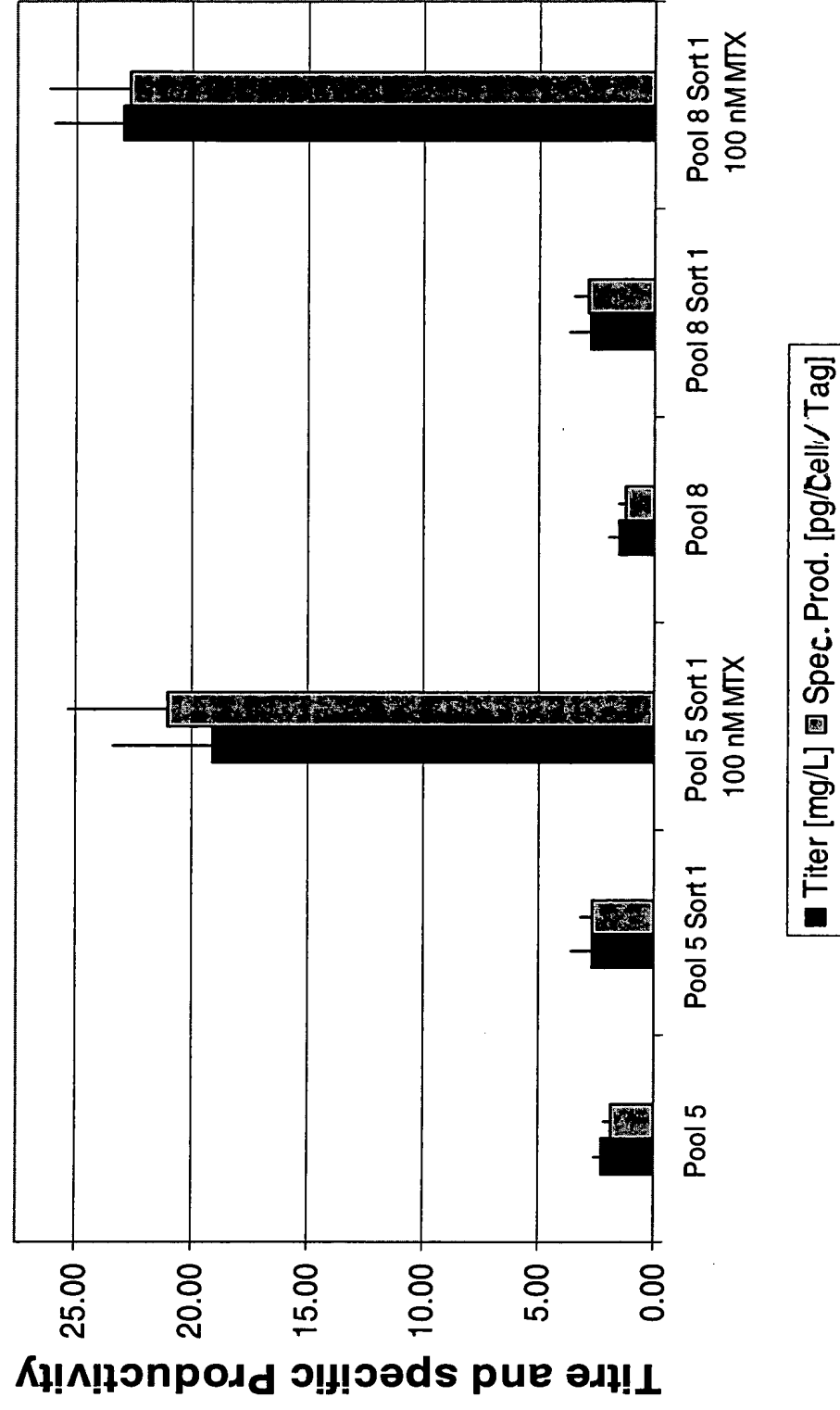


Figure 13

